Grenton I/O MODULE 2/2 allows you to control up to two outputs (max.350VA), two digital inputs and two 1-Wire sensors.



1. Parameters - DOUT

Value	Returns 1 for output set at On and O for output set at Off state	
VoltageType	0 - AC, 1 - DC, signal	
VoltageValue	Voltage value	
Power	Returns power in watts	
Overload	Maximum value of Power characteristic after exceeding which the OnOverload event is g erated	
SafeModeGroup	Safe mode group - broadcast group in case of emergency	
Methods:		
SetValue	Sets output state to 1 or 0	
Switch	Changes the output value from 0 to 1 or from 1 to 0. The first parameter is the time change: 0 - switches output to continuous mode, number - switches output for a time speified by a parameter (in milliseconds)	
SwitchOn	Sets output value to 1	
SwitchOff	Sets output value to 0	
SetVoltageType	Sets voltage type	
SetVoltageValue	Sets voltage value	
SetOverload	Sets overload value	
Events:		
OnValueChange	Occurs when a change in the state takes place (regardless of the value)	
OnSwitchOn	Occurs when On(1) is set at output	
OnSwitchOff	Occurs when Off(0) is set at output	
OnOverload	Occurs when power value is equal or higher than overload value	

2. Parameters - DIN

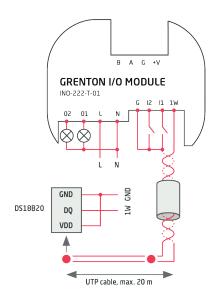
Characteristics:		
Inertion	Inertion	
HoldDelay	Time in milliseconds after which, when pressing and holding a button, the OnHold event c curs	
HoldInterval	Cyclical interval in milliseconds after which, when pressing and holding a button, the OnHok event occurs	
Value	Returns input state as 0 or 1	
StatisticState	Load measurement type: Off - turned off, Continuous - load measurement for the whole de vice's period operation, Pulse - load measurement counted at the moment of a high state appearing on the input	
Load	The measured value multiplier. For StatisticState: Continuous - load measurement value the unit of time Pulse - load measurement value for the single impulse (e.g. 1kW)	
SafeModeGroup	Safe mode group - broadcast group in case of emergency	
Methods:		
SetInertion	Minimum interval in milliseconds which has to pass between presses of a button so the interpreted as a new pressing activity	
SetHoldDelay	Sets HoldDelay value	
SetHoldInterval	Sets HoldInterval value	
Events:		
OnValueChange	Occurs when a change in the input state takes place (regardless of the value)	
OnSwitchOn	Occurs when the high state is set at input	
OnSwitchOff	Occurs when the low state is set at input	
OnShortPress	Occurs after pressing the button for 500 - 2000ms	
OnLongPress	Occurs after pressing the button for at least 2000ms	
OnHold	Occurs for the first time after HoldDelay time and then cyclically every HoldInterval value	
OnClick	Occurs after pressing the button for less than 500 ms	

3. Parameters - PowerSupplyVoltage

Characteristics:		
Value	Current output value taking into account the scalar	
Value %	Current percentage input value of the maximum value (MaxValue characteristic)	
Sensitivity	Minimum change ofinput state when the OnValueChange, OnValueLower or OnValueRis event is generated	
MinValue	Minimum value of the Value characteristic after exceeding which the OnOutOfRange event is generated	
MaxValue	Maximum value of the Value characteristic after exceeding which the OnOutOfRange ever is generated	
Methods:		
SetSensitivity	Sets input sensitivity value	
SetMinValue	Sets MinValue	
SetMaxValue	Sets MaxValue	
Events:		
OnValueChange	Event resulting from changing input state	
OnValueLower	Event occurs when a value lower than the value from the last reading appears at input	
OnValueRise	Event occurs when a value higher than the value from the last reading appears at input	
OnOutOfRange	Event resulting from exceeding the permissible range (MinValue : MaxValue)	
OnInRange	Event occurs when value returns to MinValue/MaxValue range	

4. Technical data

Device power supply	24 V _{dr}
Maximum power consumption	0,96 W
Maximum device current	30 mA (for 24 V _{dc})
Rated load voltage	230 V _{ac} or 24 V _{dc}
Rated channel load AC1	1,5 A / 230 V _{ac}
Maximal breaking capacity AC1	350 VA
Relay type	NO, inrush
Maximum wire cross section for relay outputs	2,5 mm ²
Maximum wire cross section for digital inputs	1,5 mm ²
Weight	30 g
Fixing	flush mounted
Dimensions (H/W/D)	19/45/36 mm
Operating temperature range	0 to +45 °C



+V	Device power supply	
G	GND	
A	A signal input	
В	B signal input	
1W	1-Wire input	
11	first digital input	
12	second digital input	
G	GND for 1-Wire and digital inputs	
N	'Neutral' signal	
L	'Line' signal	
01	First relay output	
02	Second relay output	

- Relay outputs: $\,$ 'N' and 'L' signals are necessary for 230 $\rm V_{\rm AC}$ loads for switch
- 'L' signal supply 0.1 and 0.2. For loads up to 24 V_{dc} switching signal has to be connected to 'L'.'N' is not necessary in this case.

6. Warnings and cautionary statements



Before proceeding with the assembly, read the installation schematics and full instructions available at www.genton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care vailed as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable.

- regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device)

 Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.

 The product is not intended for children and animals.

 If you have technical questions or comments about the device operation, contact Grenton Technical Support.

 Answers to frequently asked questions can be found at: www.support.grenton.pl



- Danger to life caused by electric currentl
 The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its
- vicinity. Incorrect connection or use may cause a fire or electric
- snock.

 All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or li-
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

7. CE marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the direc-tives of a new approach appropriate for this equipment. In par-ticular, Grenton Sp. zo. o. declares that the device fulfills the re-quirements on safety, specified by law, and that it conforms to

the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).



8. Warranty

Warranty available at: www.grenton.com/warranty

Manufacturer contact details

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